

FOE280" 6898E660

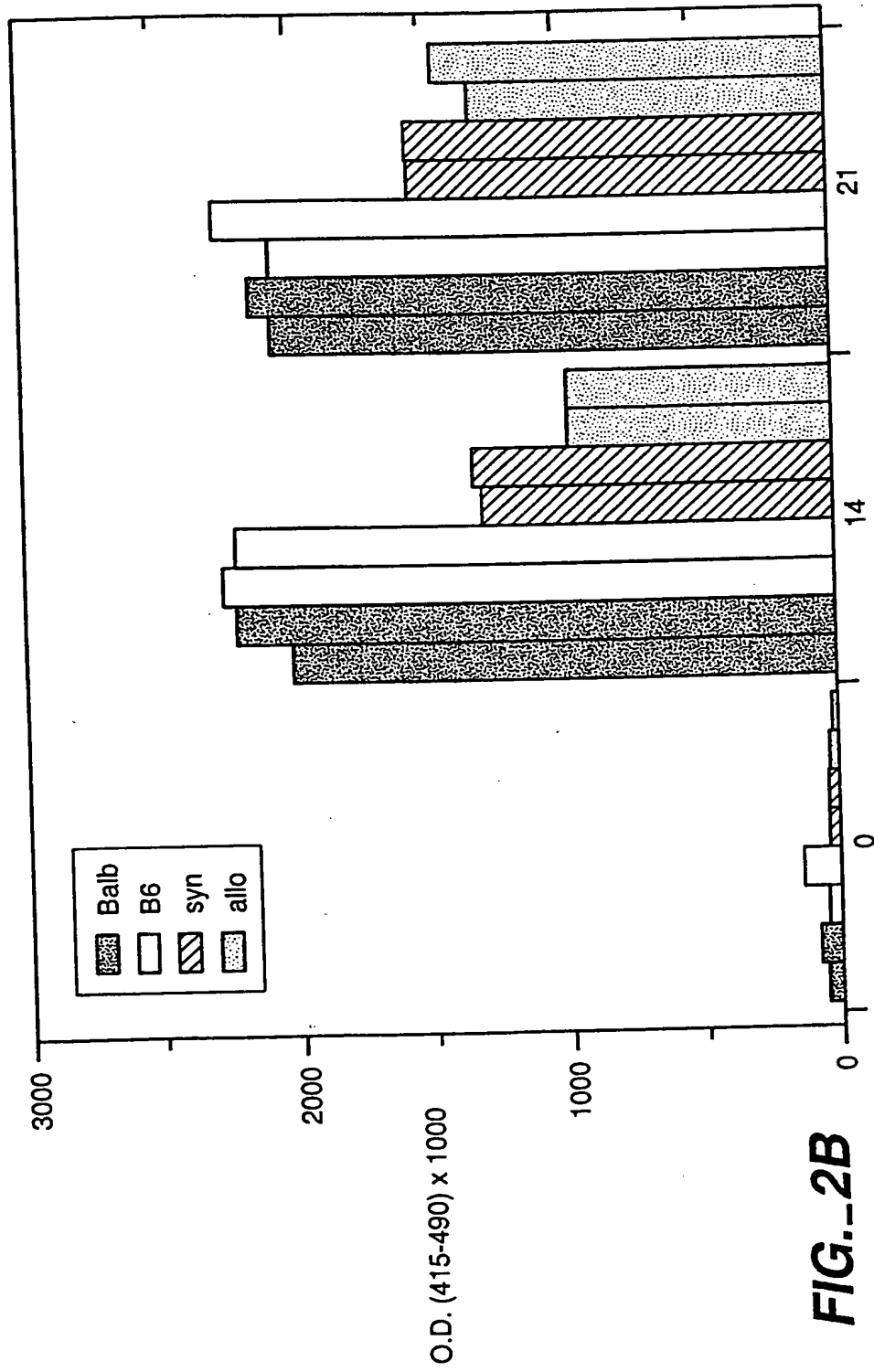
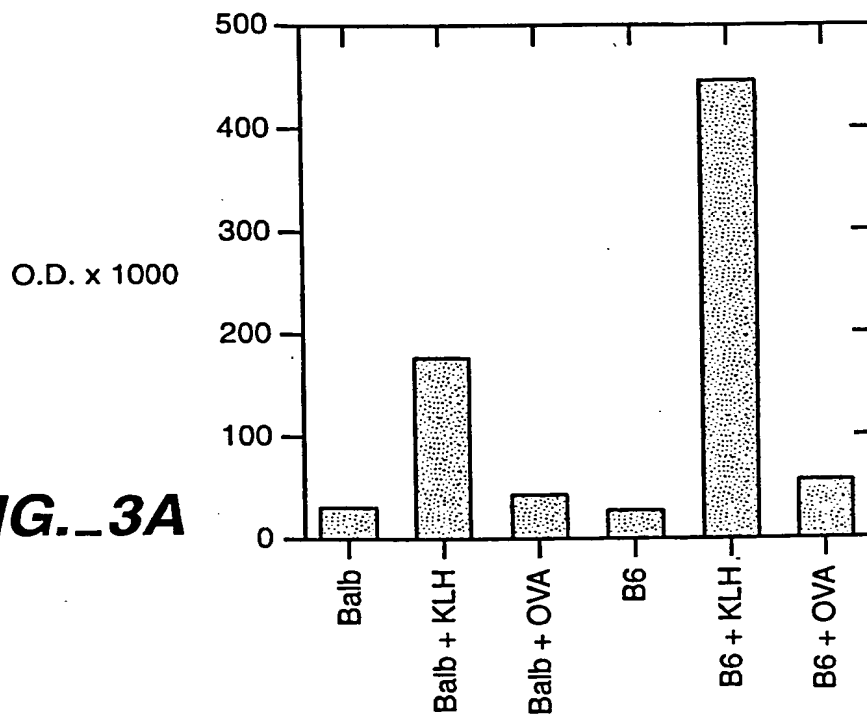
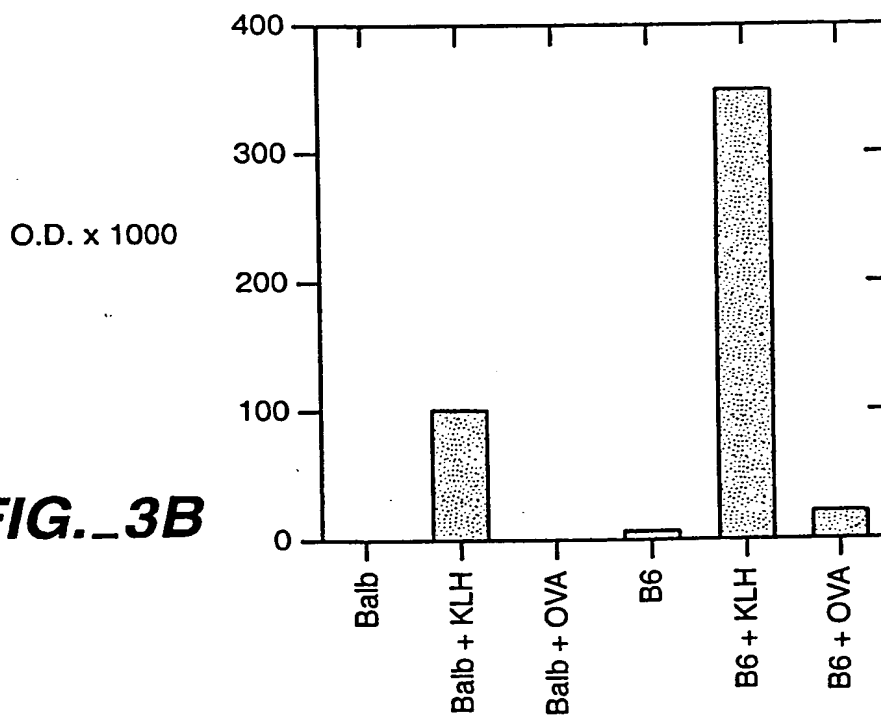


FIG._2B

FIG. 3A**FIG. 3B**

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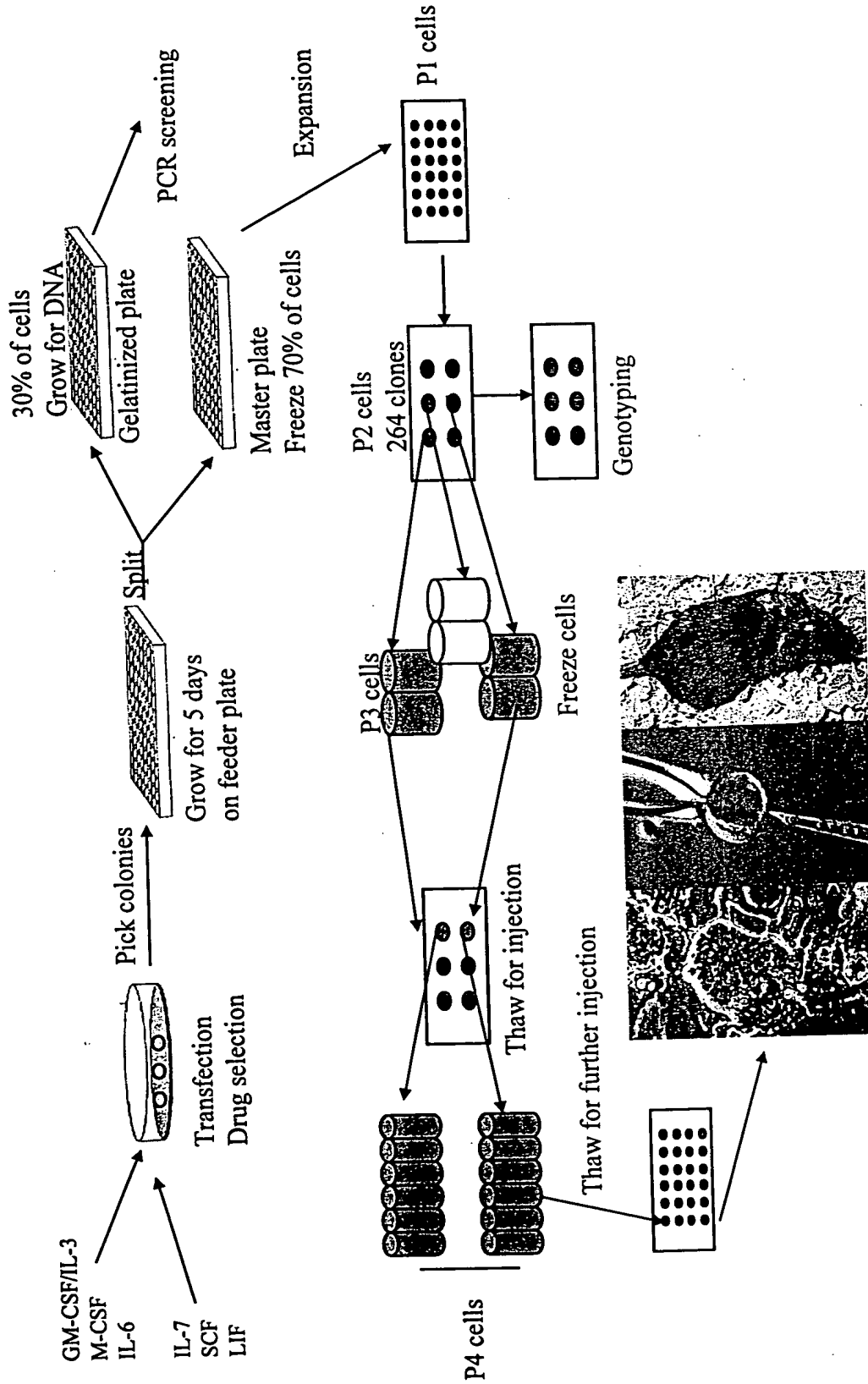


FIG. 4

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Tissue Expression of Human Transgenes

(by RT-PCR)

| Tg lines | Cytokines | spleen | thymus | liver | kidney | heart | muscle | lung | brain | BM |
|------------|-----------|--------|--------|-------|--------|-------|--------|------|-------|----|
| 71 | GM-CSF | | | | | | | | | |
| | M-CSF | | | | | | | | | |
| | IL-6 | | | | | | | | | |
| 74 | IL-7 | | | | | | | | | |
| | SCF | | | | | | | | | |
| | LIF | | | | | | | | | |
| 75 | IL-7 | | | | | | | | | |
| | SCF | | | | | | | | | |
| | LIF | | | | | | | | | |
| Endogenous | GM-CSF | | | | | | | | | |
| Genes | M-CSF | | | | | | | | | |
| | IL-6 | | | | | | | | | |
| | IL-7 | | | | | | | | | |
| | SCF | | | | | | | | | |
| | LIF | | | | | | | | | |

FIG. 5

Cytokine Expression by Transgenic Mice (pg/ml)

| | GM-CSF | M-CSF | IL-6 | IL-7 | SCF | LIF |
|-----------------|---------|----------|---------|--------|---------|-------|
| Clone12 | | | | | | |
| BM stromal | 0-0.34 | 0 | 0-0.194 | | | |
| Serum | 0.4-5.4 | 35-939 | 0 | | | |
| Clone71 | | | | | | |
| BM stromal | 0-14.1 | 0-3204 | 2-26 | | | |
| Serum | 0.2-5.0 | 926-1176 | 0.2-3.1 | | | |
| Clone74 | | | | | | |
| BM stromal | | | | 0-354 | 7-125 | 0 |
| Serum | | | | 0-2.0 | 0-2.5 | 0 |
| Clone75 | | | | | | |
| BM stromal | | | | 20-188 | 0-8 | 0 |
| Serum | | | | 0-1.1 | 0-10.4 | 0-149 |
| Clone182 | | | | | | |
| BM stromal | 0-0.16 | 0 | 0-5 | 0 | 26-256 | 0 |
| Serum | 0.3 (1) | 0 | 0 (2) | 0 (1) | 0 (1) | 0-3.5 |
| Clone185 | | | | | | |
| BM stromal | | 2.4-2624 | 2.0-13 | | | |
| Serum | 0.1 (1) | 1673 (1) | 0 (1) | | 3.4 (1) | |
| Clone201 | | | | | | |
| BM stromal | 0-129.3 | 0 | 0-20 | 0 | 0-160 | |
| Serum | 0.1 (1) | 0-1897 | 0 (2) | 0 | 0 (2) | |

FIG. 6A

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ELISA Kit Sensitivities and Normal Human Serum Values

| | Sensitivity (pg/ml) | Range (pg/ml) | Average (pg/ml) |
|--------|------------------------|------------------|--------------------|
| GM-CSF | 0.36 | 0-2.19 | 1.72 |
| M-CSF | 9 | 253-1715 | 670 |
| IL-6 | 0.094 | 0.378-10.1 | 1.62 |
| IL-7 | 0.1 | 0.27-8.7 | 2.2 |
| SCF | 9 | 558-1441 | 984 |
| LIF | 8 | 0-44.7 | 0 (39/40) |

FIG. 6B

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Human M-CSF Protein Expression and Modulation

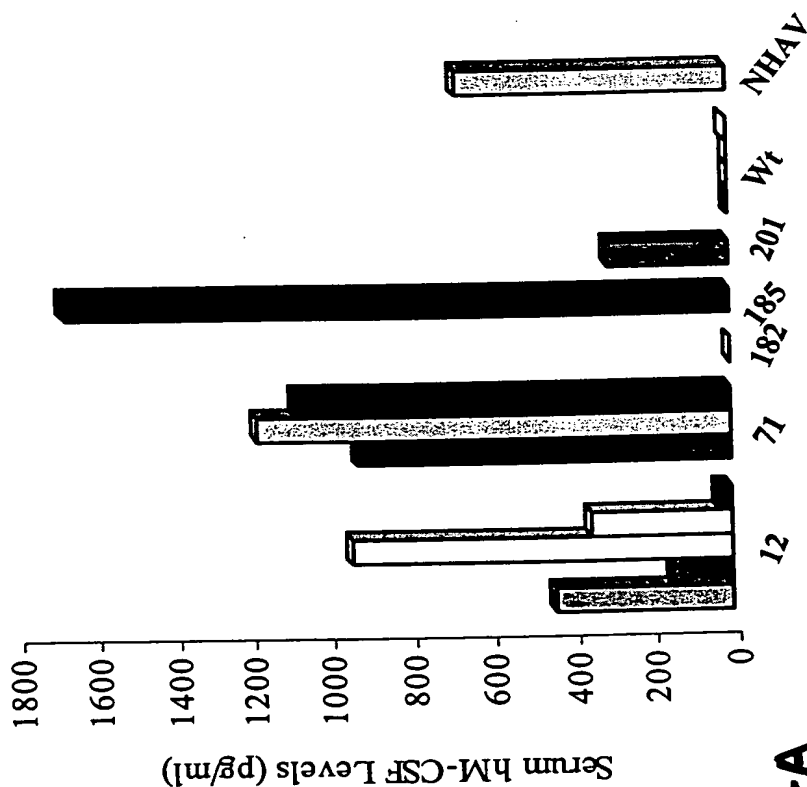


FIG. 7A

Normal human range: 253-1715 pg/ml.

NHAV: normal human average value: 670 pg/ml.

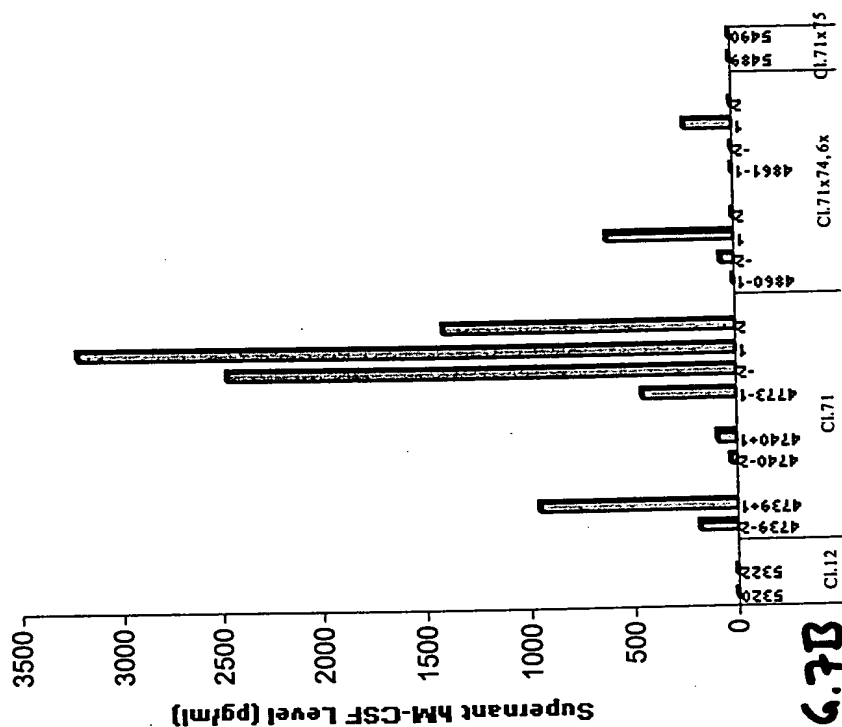


FIG. 7B

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Protocol

Effects of Transgenic Murine Hematopoietic Microenvironment on Human Hematopoiesis In Vitro

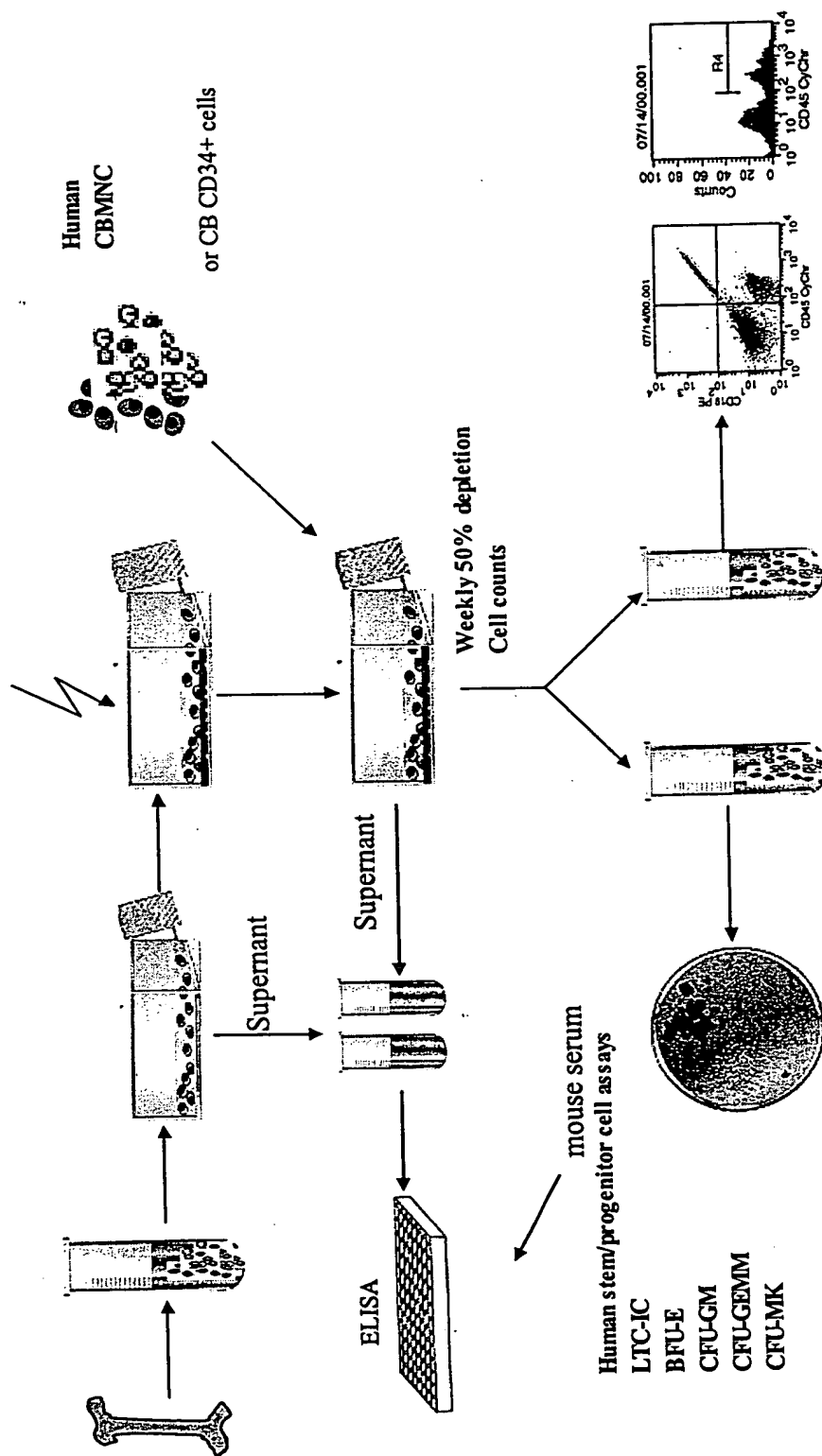


FIG. 8

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Maintenance of Human Non-adherent Cell Production in vitro by BM Stromal Cells from *i*-mune Mice

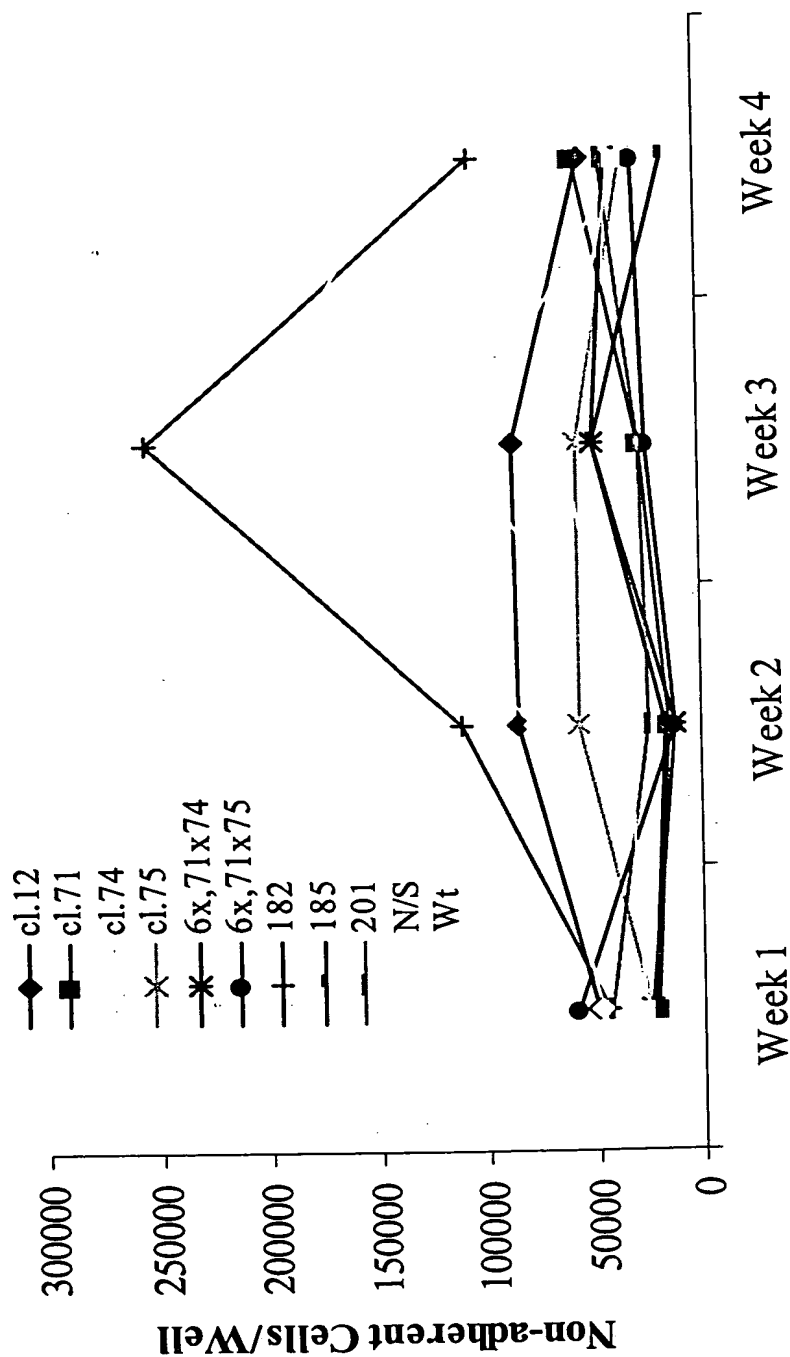


FIG. 9

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Maintenance of Human Myeloid Progenitor Production in vitro by BM Stromal Cells from *i*-mune Mice

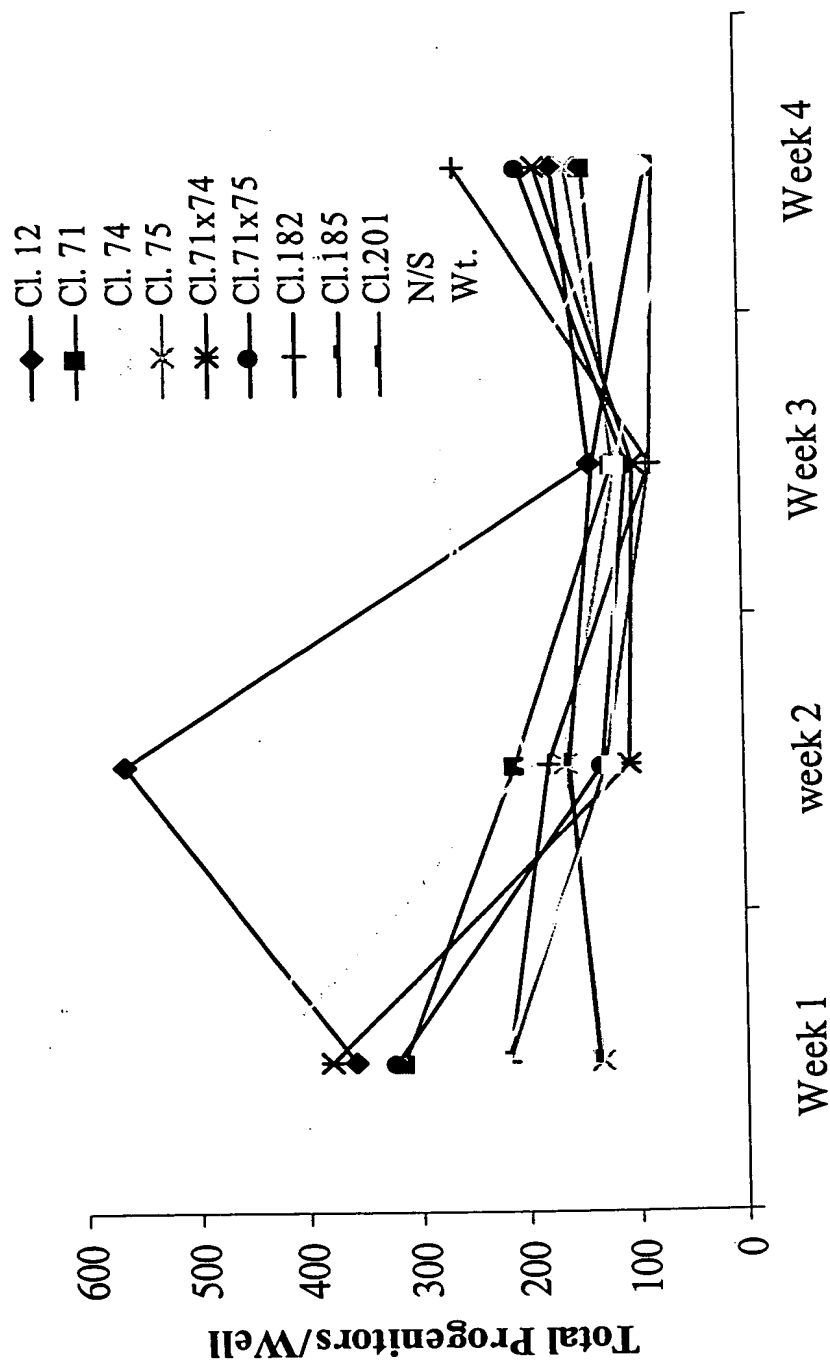


FIG. 10

Maintenance of Human Myelopoiesis in vitro by BM Stromal Cells of *i*-mune Mice

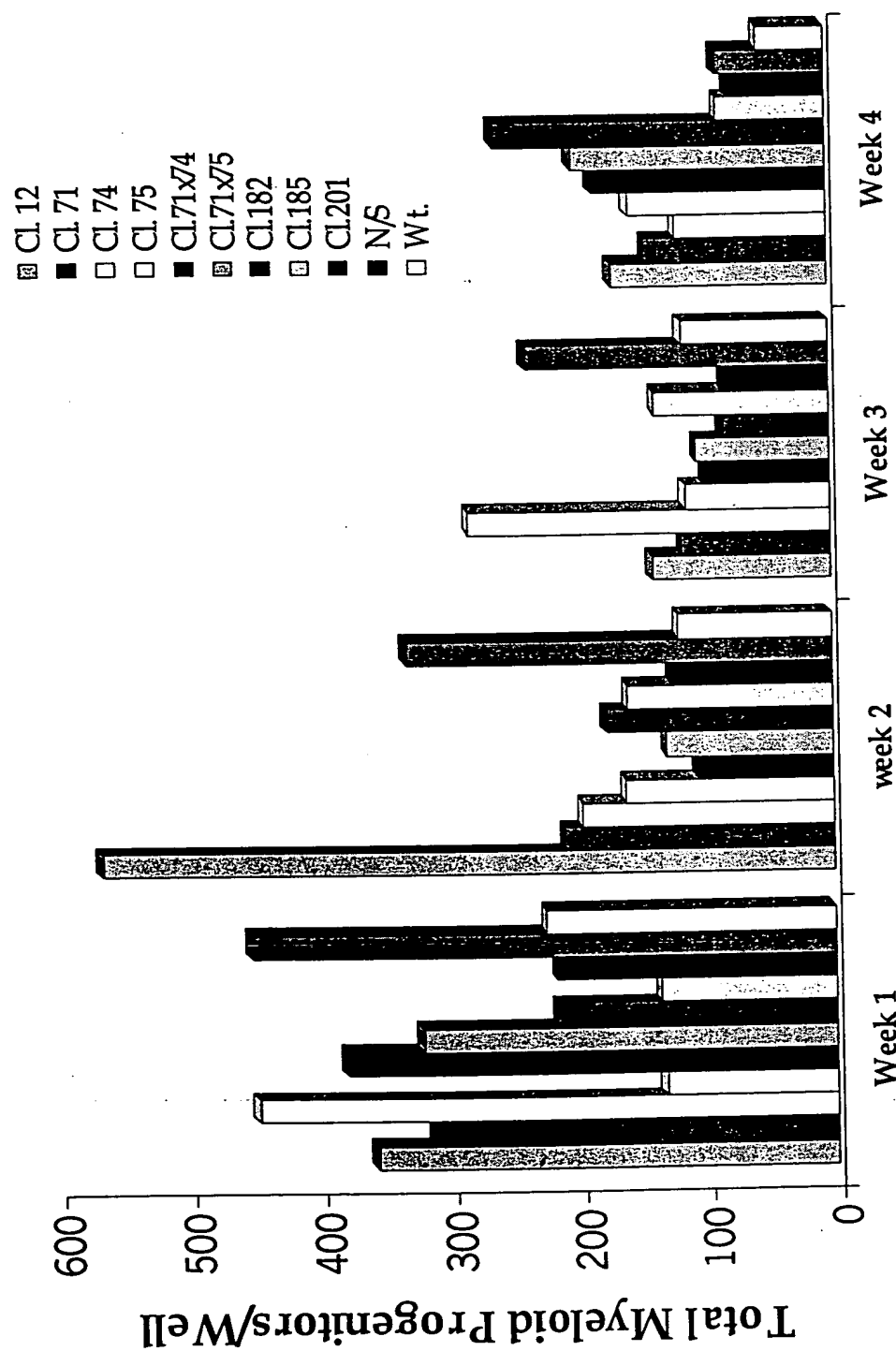


FIG. 11

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Human Myeloid Progenitor Production in Week 4 BMLTCs Derived from *i*-mune Mice

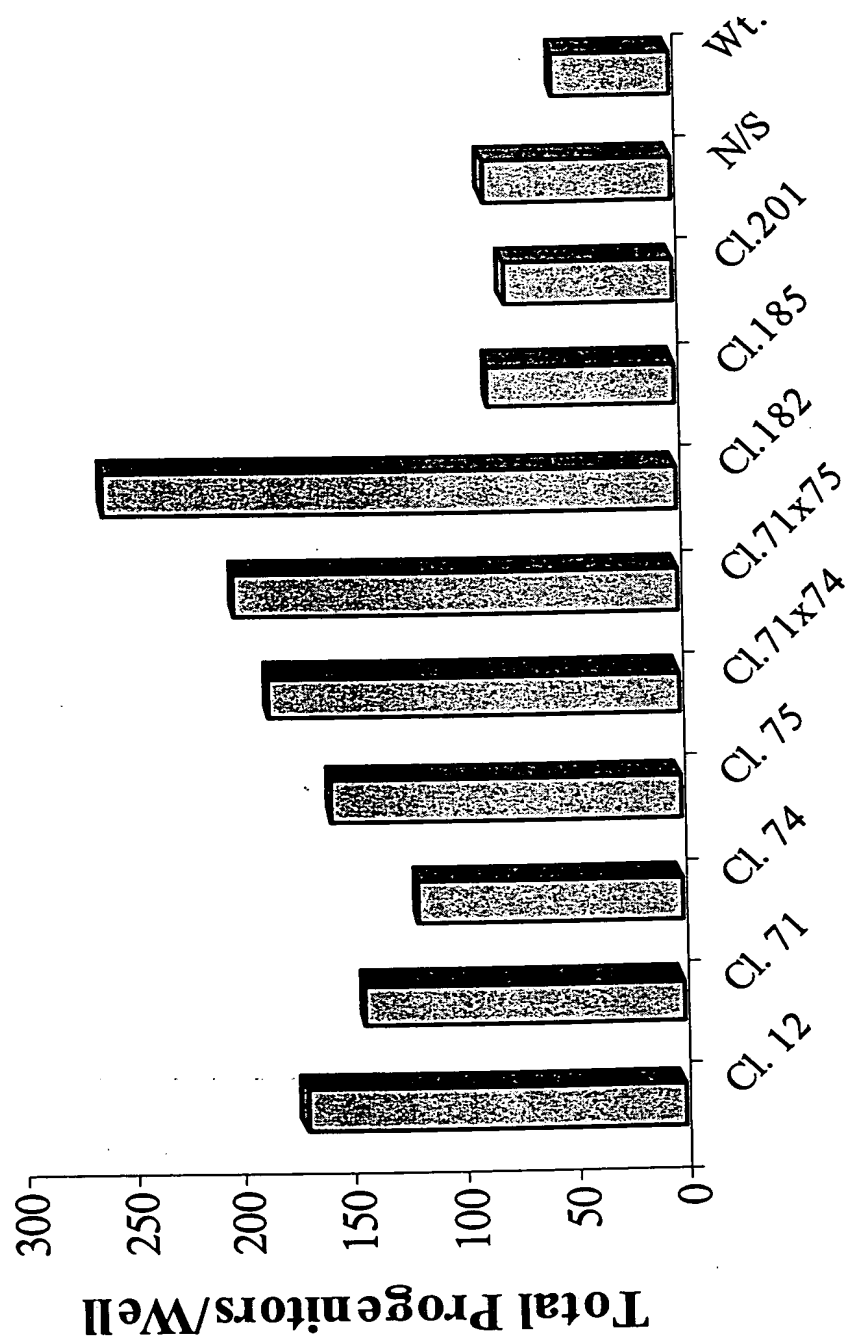


FIG. 13